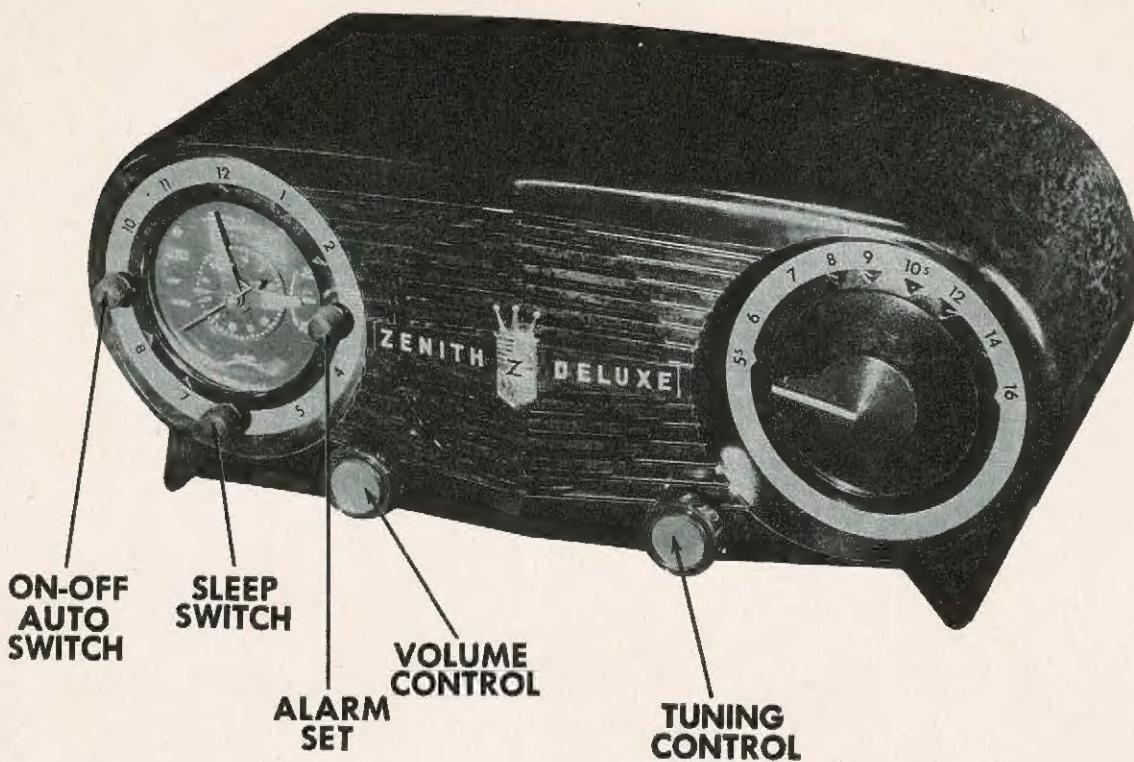


ZENITH
MODELS L518, F, G, W, Y (Ch. 5L03)ZENITH
MODELS L518, F, G, W, Y (Ch. 5L03)

TRADE NAME	Zenith Model L518, F, G, W, Y (Ch. 5L03)											
MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave., Chicago, Ill.											
TYPE SET	AC Operated AM Superheterodyne Receiver with Electric Clock											
TUBES (Five)	Types 12BE6 Conv., 12BA6 IF Amp., 12AT6 Det.-AVC-AF Amp., 50C5 Audio Output, 35W4 Rectifier											
POWER SUPPLY	110-120 Volts AC-60 Cycles											
TUNING RANGE-BROADCAST	535-1620 KC											
RATING .28 Amp. @ 117 Volts AC												
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT												
Use isolation transformer, if available. If not, connect a .1MFID capacitor in series with low side of signal generator and B-. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.												
Loop should be maintained in same relative position to chassis as when receiver is in cabinet.												
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS						
1. .1MFID	High side to pin 1 (grid) of 12BE6 (V1). Low side to B-.	455KC (400%Mod)	600KC	Across voice coil	A1, A2, A3, A4	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFID to reduce hum modulation.						
2.	Loop	1620KC	Tuning gang fully open	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.						
3.	"	1400KC	Tune to 1400KC signal	"	A6	"						
To set pointer turn tuning gang fully closed and set pointer parallel to base of cabinet of low frequency end of the dial.												

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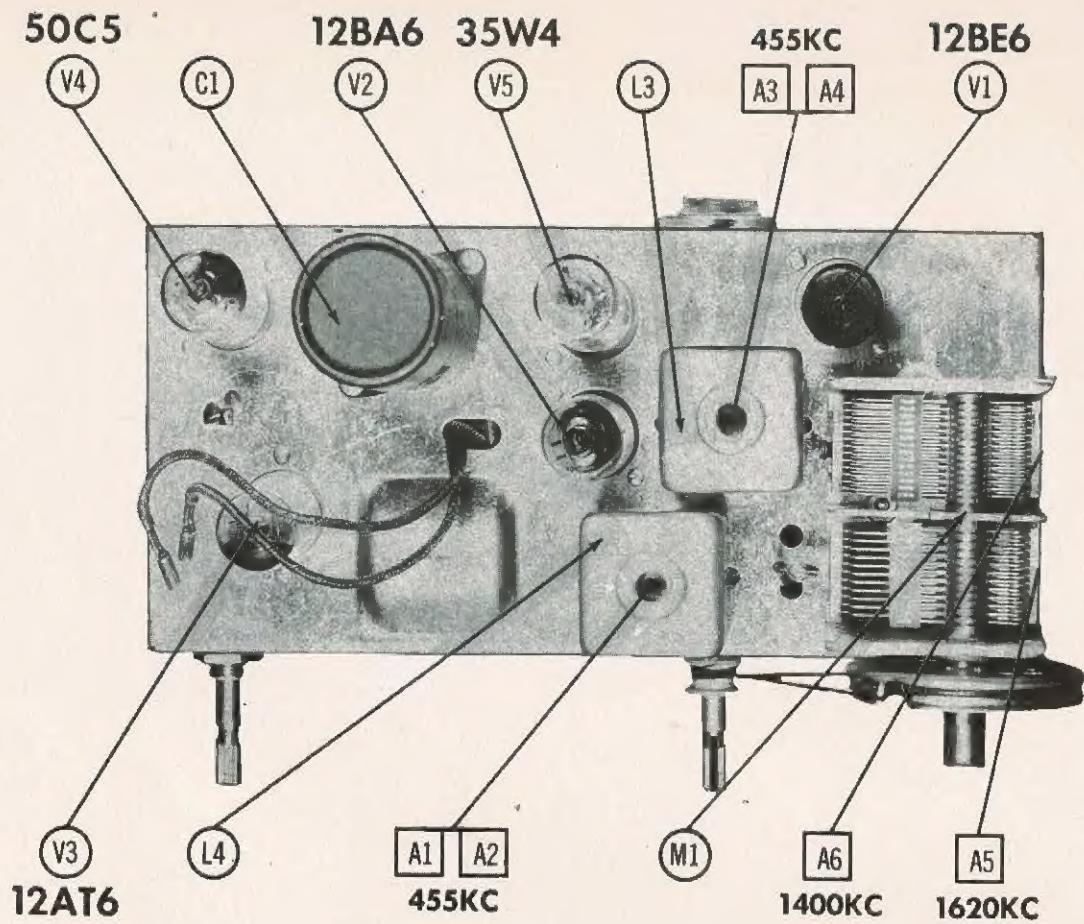
PARTS LIST AND DESCRIPTIONS

ZENITH
MODEL L516 (Ch. 5LC5)

CHASSIS—TOP VIEW

TUBES (SYLVANIA, GENERAL ELECTRIC or Equivalent)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		ZENITH PART No.	STANDARD PART No.	RTMA BASE TYPE	
V1	Converter	12BE6	12BE6	TCH	
V2	IF Amplifier	12BA6	12BA6	TBT	
V3	Det-AVC-A.F. Amp.	12AT6	12AT6	TCV	
V4	Audio Output Rectifier	50C5	50C5	5BQ4	
V5	Rectifier	35W4	35W4		



CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP. VOLT	ZENITH PART No.	AEROVOX PART No.	REPLACEMENT DATA			NOTES
				CENTRALAB DUBLIER PART No.	ERICSON PART No.	MALLORY PART No.	
C1A	.80	150	22-2351	DF-503	GP2K-251	PT415	2TM-S5
C2	.40	150	22-839	S1250	GP2K-251	PT415	5GA-T25
C3	.05	200	22-1606	DF-503	GP2K-251	PT415	2TM-S5
C4	.05	200	22-839	P288-05	PT415	PT415	5HK-S1
C5	.00900		22-3	BPD-0L	D6-103	TM551	5GA-T47
C6	.07000		22-3	BPD-00047	D6-103	GP2K-333-103	5HK-S1
C7	.01000		22-3	BPD-0L	D6-103	TM551	5GA-T47
C8	.01	400	22-1102	P288-01	D6-103	PT415	4TM-S1
C9	.00000		22-3	BPD-0L	D6-103	GP2K-333-103	5HK-S1
C10	.05	200	22-839	P288-05	D6-103	PT415	2TM-S5

CONTROLS

ITEM No.	RATING	ZENITH PART No.	IRC PART No.	REPLACEMENT DATA			NOTES
				CAROSTAT PART No.	CENTRALAB PART No.	MALLORY PART No.	
R1A	500KΩ Shaft	1	63-2983	QL-133	AG-58-S	U-50	INSTALLATION NOTES
R1B			Not Req.	KSS-9	AK-4	Not Reg.	Volume Attache to RIA

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			NOTES
		ZENITH PART No.	IRC PART No.	OHMS	
R2	22KΩ	63-1642	BTS-22K	470KΩ	1
R3	2.7Meg	63-1926	BTS-2.7Meg	150Ω	63-1977
R4	63-1737	63-1940	BTS-4.7Meg	1000Ω	63-965
R5	4.7Meg	63-1886	BTS-4.7Meg	22Ω	63-1450
R6	470KΩ	63-1886	BTS-470K	22Ω	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA			NOTES
		ZENITH PART No.	STANCOR PART No.	CHICAGO PART No.	
T1	2.0KΩ DC RES. PRI. SEC.	183Ω tan @ 60°	A-3849 ① 95-1293	RO-3 ①	S-IX ① ① Drill one new mounting hole.

PARTS LIST AND DESCRIPTIONS (Continued)

CHASSIS—BOTTOM VIEW

SPEAKER						
ITEM No.	RATINGS	REPLACEMENT DATA				NOTES
		ZENITH PART No.	JENSEN PART No.	QUAM PART No.		
SP1	4"	FIELD V. C. IMP. PM	3.3Ω	49-713	ST-13 Mod. P4-X	

COILS (RF-IF)

REPLACEMENT DATA						NOTES
ITEM No.	USE	DC RES.	ZENITH PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.
		PR.	SEC.			
I1	Loop Ant.	3.1Ω	6.5Ω	3-20492		
I2	Osc. Coil	.7Ω	1Ω	S-18616		
I3	Output IF	16Ω	95-101		16-66866	70-Osc. *
I4	Output IF	17Ω	95-102		16-9770 †	BC-355 BC-356

* Disregard tap on secondary winding.

† Use adaptor plate and cut out center spade bolt mounting support.

MISCELLANEOUS

NOTES		
ITEM No.	PART NAME	ZENITH PART No.
M1	Tuning Capacitor Switch	22-2386
M2	Clock Assy.	85-495
	Clock Assy.	S-18829
	Clock Cover	S-18828
	Clock Dial Glass	102-145
	Clock Escutcheon	67-1782
	Cabinet	14-1454
	Cabinet	14-1455
	Cabinet	14-1503
	Cabinet	14-1453
	Dial	14-1451
	Dial Scale	28-468
	Pointer	59-267
	Pointer	59-265
	Knob	46-904
	Knob	46-905
	Knob	46-943
	Knob	46-941

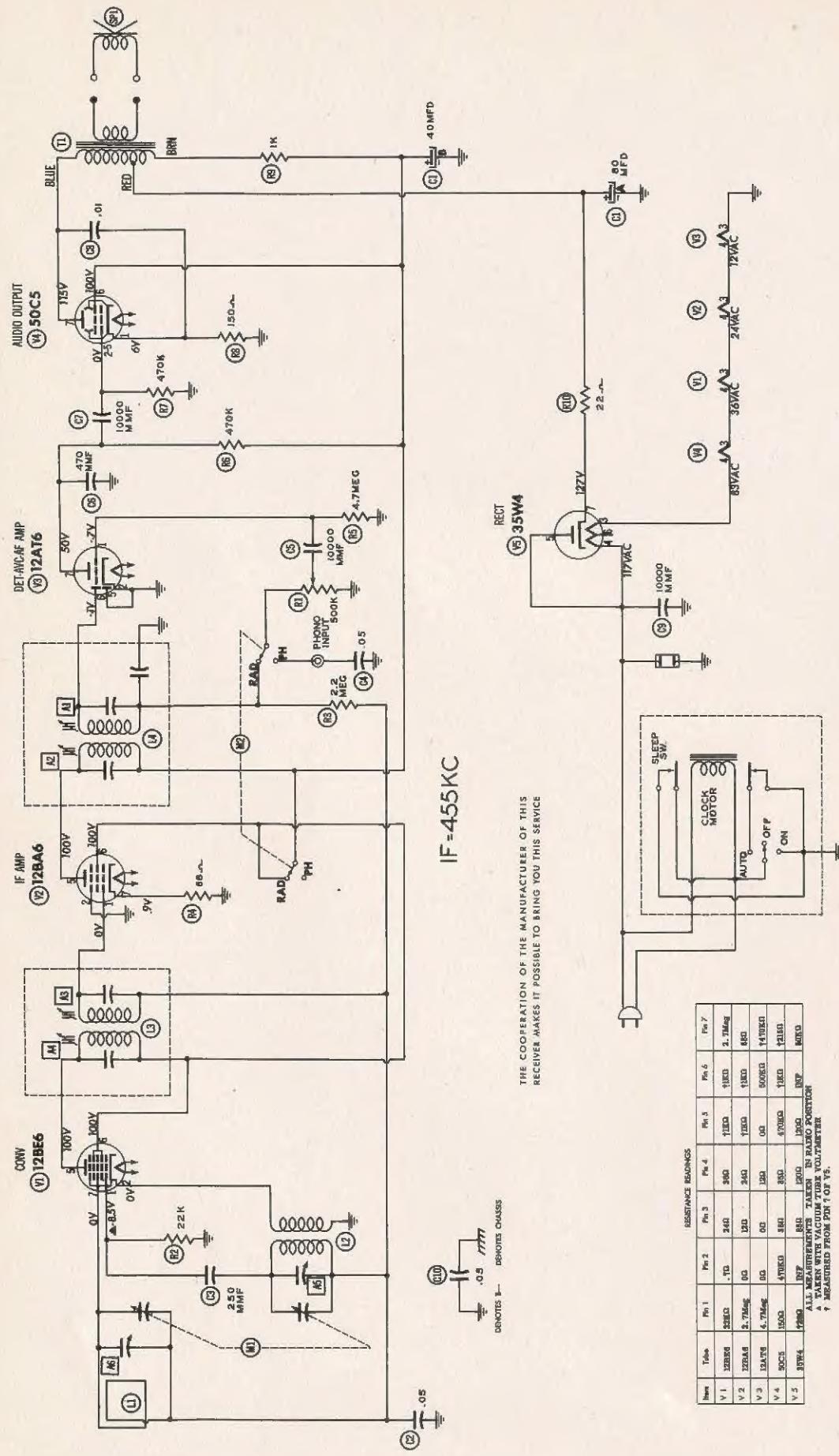
Model L518 Models L518F, L518G, L518W, L518Y

TUNING GANG FULLY CLOSED

2 1/2 TURNS

DIAL CORD DRIVE →

ZENITH
RIGHT SIDE



A. PHOTOFACT STANDARD NOTATION SCHEMATIC
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- DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of $\pm 10\%$ in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.